

THE TECH

VOL. XXXIII. NO. 164.

BOSTON, MASS., MONDAY, MARCH 30, 1914.

PRICE TWO CENTS

SPRING CONCERT TICKETS READY NEXT WEDNESDAY

Number of Individual Tickets Limited—List of Further Concerts.

The reserved seat tickets for the Spring Concert and Dance of the Combined Musical Clubs may be obtained in the Union between one and two on Wednesday, April 1, in exchange for advance tickets.

In order to limit the number of couples, only four hundred individual tickets have been put on sale. These are redeemable any noon on or after Wednesday. To keep track of the number of tickets sold and to save seats for those who have already paid their money, no reserved seats will be given out except in exchange for advance tickets.

The management requests those members of the clubs who have any advance tickets unsold to turn them in by six o'clock Tuesday, in order that they may be put on sale in the Union on Wednesday.

The next concert will be held in the First Baptist Church of Chelsea on Wednesday, April 8, and full directions will be given out later. The other concerts for the term, are: Spring Concert and Dance, April 18; concert at Roxbury Masonic Temple, Wednesday, April 22; and a concert and dance at the Stoneham High School on Tuesday, April 28.

FRESHMAN WRESTLING

Captain and Manager Elected for Coming Meet.

Saturday noon the 1917 wrestling squad met and elected their captain and manager for the coming Freshman-Sophomore meet. Leslie A. Hoffman was chosen captain, and Augustus P. Farnsworth manager. Both men have attended practice regularly and have shown plenty of interest in wrestling. Manager Farnsworth urges the Freshmen to turn out and work for the coming meet. Probably more than one bout will be put on in a class, and there is opportunity for everyone. Those who prove their ability are practically certain of getting in the meet.

SOPHOMORE BOARD

There will be a meeting of the Sophomore Governing Board in Room 21, Rogers, at one o'clock Wednesday. The purpose of the meeting is to elect two representatives to the M. I. T. Co-operative Society. At the last meeting D. B. Webster was elected to the Vice-presidency of the class to fill the vacancy caused by the death of Harvey Dewson. The sum of twenty-five dollars was appropriated to the support of the baseball team.

INTERNATIONAL NIGHT PLEASES AUDIENCE

Entertainment by Foreign and American Students—Dance in Union.

In spite of the bad weather a fair-sized crowd turned out Saturday night to the "International Night" of the Cosmopolitan Club. Z. Y. Chow, '14, President of the Club, opened the entertainment which was held in Huntington Hall, with introductory notes as to the purpose of the entertainment being the fitting out of the Club rooms in the new Walker Memorial. For the first number P. R. de Freitas, '17, gave violin selections by Wieniawsky and Fraz Drdla in a capable manner. De Freitas is a student from Brazil and a graduate of the Sao Paulo Conservatory of his home town.

"Chinese School Days," given by six Chinese students pleased the audience as the second number. The parts were taken as follows: Teacher, W. S. New; Pupils, Z. Y. Chow, '14, T. K. Kao, '15, and H. K. Chow, '14; A Village Squire, M. C. Hou, '14, and His Son, T. Chang, '15. This is a native skit which has been translated by the Chinese students for presentation at the Club's entertainment.

One of the best numbers of the program was the banjo duets by R. S. Rankin, '13, and A. Sherman, '14.

(Continued to Page 2)

HEATH BURNED WITH ACID

Leslie J. Heath, '15 of Chelsea, figured in a bad accident in the organic laboratory in 40 Walker last Saturday morning, when some acetyl chloride which he was using exploded, spattering him in the eyes. He was taken to the Massachusetts Eye and Ear Infirmary where it was feared at first that he would lose the sight of both eyes, but the doctors now think that the chances for his recovery are good.

M. E. SOCIETY

Mr. R. E. Curtis, Chairman of the Boston meetings of the American Society of Mechanical Engineers, will address the Mechanical Engineering Society of the Institute on "Purchasing in Its Relation to Engineering" on Wednesday afternoon at 4.15 in 11 Engineering B.

JUNIOR RELAY

Men interested in the 1915 Relay team are requested to report to Coach Kanaly at the Field at their earliest convenience today. The management requests that new men as well as former members of the team come out.

LARGE NUMBER OF SHOW APPLICATIONS

Seats at Evening Performance in Boston Almost All Assigned.

All applications for seats at "A Royal Johnnie" which were received before five o'clock Saturday have been filled. The tickets may be obtained at the Show Office, if they are called for before the end of the week. Notices have been sent to practically all applicants. Anyone who did not receive a notice should make sure that tickets have been assigned to him.

The number of applications received this year is greater than those received for any of the recent shows. Seats at the evening performance in Boston are almost all spoken for, but there are still a few available at the afternoon performance. These remaining seats should be applied for during this week, as they are to go to Herrick next Monday. There will be no increase in price, since a special arrangement has been made with Herrick's and with the managements of the various theaters.

BOAT CLUB TO OPEN SEASON WEDNESDAY

Meeting of All Interested at Union 4.30 on That Day.

Active rowing practice will begin a week from today at the B. A. A. boat-house near the Cottage Farm Bridge. It is expected that each class will be represented by at least two crews. The Boat Club has been running for several years as an independent organization and up until this year it has received no official recognition. The Institute Committee has voted to award numerals to all members of the first class crews this year and the classes will lend their aid by gifts of sweaters. As a tempting inducement to Freshmen it is probable that first year men will be excused from gym work as they were last year. In order to organize the work a general meeting of all interested will be held in the Union at 4.30 p. m. next Wednesday.

A number of the alumni to show their appreciation of the work have given the club several hundred dollars. Two new shells have been ordered from Davy's in Cambridge and they will be ready on Saturday next, so that practice may begin on the Monday following. The shells are forty feet long and the hull of each consists of only six pieces of planking. The weight of each shell is so small that it may be easily managed by two men while the B. A. A. boats formerly used could not be carried any distance by less than five.

TRIP TO WORCESTER IS PLANNED BY CHEMICALS

To Visit Steel and Wire, Leather, and Alundun Plants Next Wednesday.

About thirty-five members of the Chemical Society have already signed up for the trip to Worcester on Wednesday of this week and several more are intending to go so that a party of about forty will take the trip.

Professor Walker of the Industrial Department will accompany the fellows and act as guide and general information dispenser.

The trip will include a visit to the American Steel & Wire plant and the Gratton & Knight Leather Co., and, if time permits, to the Norton Co., where "Alundun" is made. The start will be made at 8.30 a. m. from Trinity Place on Wednesday morning. Anyone missing the train will lose advantage of the reduced rate.

The morning will be spent at the Steel & Wire plant where the various processes in the manufacture of steel and wire will be seen. After lunch the party will go to the Gratton & Knight Co., where the preparation of leather and the making of leather belts will be inspected. After this, if there is time enough, a visit to the Norton Co. will be made. This is interesting because of the new "Alundun" which is made here. Many new and improved grinding machines are used in the plant.

The return will probably be made about five-thirty or six o'clock.

CALENDAR

Monday, March 30, 1914.

Track Practice at the Field Begins.
Omission of Monday Drill Begins.
1915 Relay Squad. Field.
4.00—Full Show Rehearsal. Union.
4.15—Wireless Society Meeting. 11 Eng. B.
5.00—Technique Band Rehearsal. Union. Room A.
7.00—T. C. A. Bible Study. Union. Room A.

Tuesday, March 31, 1914.

4.00—Meeting Architectural Engineering Society. 42 Pierce.
4.00—Rehearsal of Show Ponies. Union, Room B.
5.15—Institute Committee Meeting. 8 Eng. C.

Wednesday, April 1, 1914.

8.30 a. m.—Chemical Society Trip. Trinity Place.
1.00—Sophomore Governing Board. 21 Rogers.
4.15—M. E. Society Meeting. 11 Eng. B.
4.30—Crew Meeting. Union.
8.00—696th Meeting of the Society of Arts. Huntington Hall.

THE TECH

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MONDAY, MARCH 30, 1914.

IN CHARGE OF THIS ISSUE.

Editor: G. W. Wyman, '16.
Associates: J. M. DeBell, '17; H. E. Lobdell, '17; M. J. Lewis.

The resumption of active work by the Crew, with its increased facilities, should meet with an enthusiastic welcome. The exercise obtained is admittedly the best form for all-around development, while the awarding of class numerals and the substitution of rowing for Gym work indicate the status of the organization as an Institute activity. Thanks are due particularly to the Alumni whose financial support has made the expansion possible.

The exceptional demand for Tech Show tickets augurs well for the main purpose of this activity, the support of athletics. Whether the secondary purpose of giving the audiences the value of their money will be equally well performed remains to be seen, but chances seem good for an improvement over last year, at least. This point should receive its share of attention, since on it largely depends the success of future shows.

The announcement was made yesterday that Mr. Eugene Palmer has offered to build and present to Princeton University for the use of the Athletic Association a stadium costing three hundred thousand dollars and seating over forty thousand persons. Princeton has long needed a stadium to compare favorably with Soldiers' Field and the new Yale "Bowl." Besides upholding the honor of the University, it will save the ten thousand dollars annually spent by the Athletic Association for the erection and tearing down of temporary bleachers.



Among the suggestions that have been heard about the 'Stute for featuring the Spring Meet have been relay races between the instructors or Professors and the co-eds, the use of baby carriages instead of batons in the Interclass relay race, potato races and many other unique contests.

The coming week is of note because of the coming Freshman-Sophomore Cross Country Race. This always gives a chance for men of mediocre ability to get a reward for their perseverance. Instead of awarding the class numerals to the first six men to score, the first six men on the winning team get their insignia.

The annual Spring Run of the Hare and Hound Club had to be postponed on account of the sloppy weather Saturday. Tech course is ideal in most ways but there are certain portions that are so low that the rain accumulates in miniature lakes and renders progress decidedly unpleasant. There is moreover a marshy section in which the men sink up to their ankles in even moderately moist weather.

After having the outdoor work postponed for a week the men will have to apply themselves with extra vim if they desire to be in any sort of condition by the seventeenth. A good showing must be made by them or they will be in no sort of condition to meet Bowdoin the following week.

The Advisory Council has requested that men do not wear their insignia until it is officially awarded. In that case might it not be advisable to have the notices of award sent promptly after action. Many a man has not received the notice until months after he has actually earned the honor.

INSTITUTE COMMITTEE

There will be a special meeting of the Institute Committee tomorrow afternoon at 5.15 in 8 Engineering C. Unfinished business will be completed and the report of the special committee on the Constitution of The Technology Monthly will be read.

SHOW REHEARSAL

There will be a full rehearsal of the Tech Show this afternoon at 4.15. Mr. Sanger will be present and will have entire charge.

Williams has announced dates for golf matches with Dartmouth, Yale, Princeton, Harvard, and the Greenfield Country Club.

Yale oarsmen are having practice pulls of ten or twelve miles daily now.

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INTERNATIONAL NIGHT

(Continued from Page 1)

After being called back for two numbers they produced an acrobatic banjo playing stunt that brought forth great applause. The Sword Dance by a Chinese student was different from anything seen in entertainments given at the Institute. A real, sharp sword was used because the final flourish cut a slash in the drop curtain, showing the Turkish fleet entering the harbor of Constantinople.

One of the favorite performers at Chinese Nights of the Cosmopolitan Club, F. T. Yeh, '14, next performed some of his feats of magic and card tricks. How he took the card out of the egg is still a mystery. Two fine tenor selections were given by G. A. Saladrigas, '16, who sang parts from Tosco and Rigoletto.

The seventh number was given by B. Alfaro, '16, as the lady and V. Checa, '17. They gave their interpretation of the Argentine Tango. The final and feature number was the "International Peace Conference," showing the peace conference held in Huntington Hall at the fiftieth anniversary of the New Technology. The parts were taken as follows:

Miss Spanfwurst, H. Shabacker, '17
Woodrow Rosington, F. E. Stern, '15

DELEGATES FROM

England, W. E. Lucas, '14
Germany, F. P. Karns, '14
China, T. C. Hsi, '14
South American Union, V. F. Checa, '17
South African Union, C. A. P. Maguire, '16
North African Union, J. D. McIntyre, '16
Japan, T. T. Hsi, '14
Albania, R. Beaver, '17

McIntyre again made his appearance in blackface to the delight of the audience.

After the entertainment the dance in the Union lasted until twelve o'clock. The matrons of the affair were Mrs. A. E. Burton, Mrs. C. M. Spofford and Mrs. R. P. Bigelow. The committee in charge of the International Night was R. Alfaro, '16, chairman, L. W. Snow, '14, T. C. Hsi, '15, F. E. Stern, '15, and E. Herbakowsky, '16. Much of the credit for the affair is due to F. E. Stern and Z. Y. Chow.

THE CHALLENGE

Technique Invited To Do Battle
—Game Uncertain As Yet.

Ye Technique "Inkslingers," give an ear. Have you in your conglomeration of so-called editors, nine men and a water boy who know anything about baseball? According to the past files of THE TECH, you have only won once in a dozen tries and that was due to the error of a new heeler who had not yet been acclimated. Therefore the stars of THE TECH, known all over the American, National and Federal circuits as rivals of Evers and Speaker hesitated about wasting their time in making you chase all over Tech Field. Tradition must be upheld however and therefore it is the painful duty of THE TECH to challenge Technique 1915 to a combat to the death, or the third base platform, with balls, bats, gloves and other kindred material.

Marquis of Queensbury rules will surely have to hold this year. No more two by four sticks for bats and no more ping pong balls. Technique has been too much favored in the past, but this time only baseball goes. The journalists realize that it is rather hard on a crowd that has probably not even seen a ball game but you have plenty of notice so get ready or back out quick. When you make known to the world through the only way you have of doing so, namely through the columns of THE TECH, that you intend to offer yourselves up to the slaughter, THE TECH will let you in on the makeup of their squad and let you start eating cod-fish to get up a thirst. Sure thing, the third base watering place is going to be a feature or the thing's off.

Ye men of Technique, get ready. You don't know what is coming to you this year. An earthquake will be like an ice cream soda compared to it.

The only condition, which we demand, is that the bases and other equipment shall not be Union make.

TRACK PRACTICE

Track practice will be held at the Field commencing today. On rainy days announcements will be made by noon of the day in question.

**TECHNIQUE USING
FOUR LARGE PRESSES****Printing in This Year's Book
Being Done by New
Method.**

If you should step into the offices and publishing rooms of the George H. Ellis Company, publishers, any time during this week, you would immediately realize what a large publication Technique really is, for in the words of one who made such a visit, "You don't see anything but Technique around the place." In the composing room you find the proof-readers busy looking over the final proof and the workmen busy locking together the forms. Each page as it is finally approved is set in its proper place in the printer's form of sixteen pages and from there carried to the press room.

Four large presses are at work on the job, and all running at top speed that the ink may have plenty of time to dry out before the book is sent to the binder. As stated in THE TECH the other day, a new kind of ink is being used on the book which requires a great deal more attention than the ordinary sort. To avoid smearing and spotting each sheet has to be "slip-sheeted," that is, between every printed page as it is delivered by the machine to the bed of the press where the paper is stacked after printing the pressman's assistant has to slip a sheet of absorbent paper to take up the surplus oil required in this new process.

As the printer states, he must depend solely upon the skill of the man who mixes the ink for him for the final result, as when the paper comes off of the press the ink has not at all the appearance that it will have when it is finally dry, so that the printer cannot tell from the proof that he gets on his press just what the final result will be. From this it is evident that the printing of the book this year is a much larger and more difficult task than that of former years.

Then, besides the regular printing of the book itself, there are the seven color plates which are to add so much to the appearance of this year's publication. These seven plates are printed all in one form, as the printer says, that is, all seven plates are printed at the same time on the same press. As each plate requires four printings in different colored inks, and as each color must fit exactly over the preceding color on that page in order to prevent the blurring and weird effects so often seen in colored supplements, the most exact "register" must be secured. This means that the printer must make twenty-eight impressions which cannot vary the hundredth of an inch in their position upon the paper. But aside from the printing the color mixing is of as great importance. The colors used are red, blue, yellow and black. These colors are so chosen that but one color yellow, or whatever color it may happen to be, will give exactly the shade desired in all the pictures, and when it is remembered that the one who did the original painting used just whatever color he pleased, one can begin to realize

**FRESHMAN-SOPHOMORE
RACE THIS SATURDAY****Practice Run Tomorrow Over
The Course—Spring Run
Postponed.**

As the Spring Run had to be postponed last Saturday it has been decided to run it in conjunction with the Freshman-Sophomore Race next Saturday. The two teams can be chosen, the race run off, and the Freshman-Sophomore Race decided by separate scoring.

Since many of the men are unfamiliar with the course a run will be held over the Course tomorrow leaving the Back Bay station at about four o'clock. The exact time of departure will be announced in tomorrow's issue of THE TECH. The run tomorrow will be an easy one as the main idea is to acquaint the men with the hard parts of the race, such as the jumping of the fences, crossing the cuts and clearing the brook.

The work this week will be out-of-doors and comparatively good times may be expected in Saturday's Run, which will complete the Spring Cross Country Season. The round trip fare will be twenty-five cents and the tickets can be purchased from Asst. Chase Captain Gray at the station before departure.

T. C. A. SPEAKER

Secretary Talbot, of the T. C. A., announces that Mr. D. M. Claghorn will be the T. C. A. speaker at next Thursday's meeting in the Union. Mr. Claghorn, who is the Social Service Secretary of the B. Y. M. C. A., will speak on "The Weight of a Man's word." It will be recalled that he was to speak at the Institute some time ago, but was prevented from doing so by a severe cold. Mr. Claghorn, who is a powerful speaker, says he will positively be on hand Thursday.

NO DRILL TODAY

Following his custom of former years and beginning with this week, Major Cole announces that the Monday and Thursday drill periods will be suspended and a two hour period on Wednesday from three o'clock until five substituted. This is designed to make more detailed work at the Armory than is at present possible with the short time allotted to each drill. This arrangement is to hold through the rest of the term.

that the making of Technique is as much the work of the printer as it is of the Board.

So, when it is said that the whole printing establishment is at work on Technique, and one realizes the amount of work done by each individual in the concern, one can begin to formulate some idea of what the Technique Board means when they say that this year's publication will set a standard for the books of the future to follow.

Cornell's soccer players were defeated Saturday in their first match in the Intercollegiate series by Harvard.

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FACULTY NOTICES

Fourth Year.

Exercises in Electric Wiring of Buildings will be held Mondays at 9 in 26 Lowell and Thursdays at 12 in 23A Lowell, beginning Thursday, April 2nd.

WALTER HUMPHREYS,
Registrar.

March 27, 1914.

First Year—Course IV.

The exercise in Shades and Shadows scheduled on the Tabular View for Monday 2-3 has been transferred to Tuesday 9-10. The first exercise will be on Thursday, April 2, in Room 40A Pierce. Students may obtain the text-book of Miss Whipple in Room 35 Pierce; price 40c. For the first exercise prepare as far as paragraph 32. Bring to each exercise small T-square, triangle, scale, instruments, thumb tacks, etc. Paper will be furnished.

WALTER HUMPHREYS,
Registrar.

March 27th, 1914.

THE FIELD MANAGER AMONG THE ALUMNI

Mr. I. W. Litchfield Returns from Trip Among New York State Alumni.

Mr. I. W. Litchfield, Field Manager of the Alumni Association, recently completed his trip throughout New York State, where he visited the Technology Clubs of several cities. His first stop was at Buffalo, where about twenty-five Tech men gathered for dinner at the Buffalo Club. The meeting was presided over by Mr. Corse, '99, and the graduates were a most enthusiastic assembly, says Mr. Litchfield. Tech songs were sung and Tech cheers were given "in good shape." A large number of Tech men came down from Niagara Falls, under the leadership of Mr. J. Critchett, '09, a former president of the Institute Committee. After the dinner an informal discussion was held, the New Technology and the Tech-Harvard Agreement being the main topics. The Buffalo men showed no little interest and were very live and wide-awake.

From Buffalo Mr. Litchfield went to Rochester, where on Wednesday evening a large number of Tech men gathered at the Genesee Valley Club for dinner. Mr. F. W. Lovejoy, '94, General Manager of the Eastman Kodak Company presided. Following the dinner, Mr. Litchfield showed slides of the New Technology in plans and elevations, outlining briefly the plans for the new Institute. He also devoted some time to the Tech-Harvard Alliance, and spoke also of the student activities here at the Institute.

Thursday Mr. Litchfield spent in Syracuse, where again he met a large number of Tech men. This time the luncheon was held at the Heidelberg Club and after the dinner the assembly adjourned to the auditorium of the Technology Club. Here also an informal discussion was held, questions were asked the Field Manager, and again the center of the discussion and of Mr. Litchfield's talk was



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the new Institute in Cambridge together with the alliance with Harvard. The slides were shown here to good advantage. Among those present were a large number of teachers and professors of high schools and also several prospective Tech students.

In addition to telling in detail of the New Technology and of the co-operative plan with Harvard, Mr. Litchfield gave at every meeting he attended a complete description of the undergraduate organization and of the Institute Committee, telling also of its work. The Field Manager was particularly careful to place the undergraduates before the eyes of the Alumni. Mr. Litchfield stated that considerable interest was shown in the new Technology Monthly, and not a few were the queries put to him in regard to it.

WIRELESS SOCIETY MEETING

Illustrated Lecture on Goldschmidt System.

At today's meeting of the Wireless Society an illustrated lecture is to be given on alternating generators of high efficiency and the Goldschmidt System, the patents on which were recently purchased by the Marconi Company. The Goldschmidt System is the greatest improvement in radio transmission since the invention of radio telegraphy, and may bid fair to supplant present systems by the results obtained from present stations, one of which is erected near Panama, C. Z.

All interested in Radio Telegraphy are invited to attend this lecture and learn of this great development as well as to become acquainted with the members. The society has a radio station which receives signals over six hundred miles and within a few weeks expects to have a sending station in operation under the new law with a possible range of fifty miles that is open to all members of the Society.

The meeting will be held in Room 11, Eng. B, at 4.15 p. m.

IS THE ETHER AN ESSENTIAL CONCEPT?

Professor Comstock Leads Chemists Through the Maze of Modern Physical Theory.

Friday night the Chemical Society met to hear Professor Comstock lecture on "Modern Physics and Chemistry" and adjourned some hours later only through the compelling influence of the next day's tasks. To the men who attended, Prof. Comstock

gave a look into the world of ultimates as modern thinkers conceive it, the world of atoms, electrons, and radiant energy.

He first impressed upon his hearers the fact that within the last few years physicists have become certain of the existence of atoms, and are equally certain that the structure built on the atomic hypothesis, as it has been evolved in the last two decades, is the first approximation to the truth. This structure involves today the conception of the electron and of radiant energy, two fundamental factors whose absolute existence is not certain as yet.

During the last few years, the multitude of facts concerning the mechanics of atoms has demanded the clarifying effect of fundamental assumptions, and now many previously assumed conditions have been submitted to measurement, and have proven in accord with theory.

Professor Comstock's presentation of the concept of the electron was much clearer and logical than the concept which can be obtained from popularized presentations, for rather than emphasizing the startling, he helped his hearers to understand the unusual, and by his simple comparisons brought the whole field within the range of ordinary thought. The electrons are in diameter one one-hundred thousandth of the diameter of the atom, but they possess such an enormous electrical charge in proportion to their mass that electrically they are very important. He showed how electrons penetrated atoms, were caught by them, and imparted to them negative charges, while the atoms which had lost an electron or two were positively charged. He piled up example on example of the way in which diverse phenomena could be unified by this concept, and incidentally outlined the two methods by which atoms had been counted.

He also began to give the members an idea of the kinetic theory of gases, of the experimental proof of this theory, and would have gone on to outline the usefulness of the concept of radiant energy had he felt at liberty to hold his hearers' attention longer.

At the end of the talk he answered questions for some time, and finally received a very hearty vote of thanks.

President Dickson announced the trip to Worcester for next Wednesday morning at 8.30, had two designs for pins circulated, and then reminded the men that nominations were due for the officers for the coming year.

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